

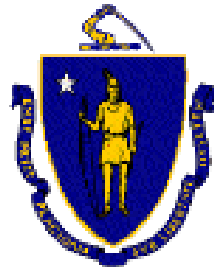


MASSACHUSETTS DEPARTMENT OF
CONSERVATION AND RECREATION

Winthrop Beach Shore Protection Winthrop Shore Drive Improvements - Update -

DCR Public Meeting

**Tuesday, May 17, 2016 – 6:30pm – 8:30pm
Robert A. DeLeo Winthrop Senior Center – Council on Aging
35 Harvard Street, Winthrop, MA 02152**



Commonwealth of Massachusetts

Governor

Charles D. Baker

Lieutenant Governor

Karyn E. Polito

Energy and Environmental Affairs Secretary

Matthew A. Beaton

Department of Conservation and Recreation Commissioner

Leo P. Roy



DCR Mission Statement

*To protect, promote and enhance our
common wealth of natural, cultural
and recreational resources
for the well-being of all.*

Tonight's Meeting - Purpose

1. Update on beach re-grading activities
2. Update on beach monitoring activities
3. Discussion of concrete stair repair work
4. Discussion of scope of ongoing engineering Peer Review
5. Plans for future public meetings
 - May 31, 2016
 - Present the results of the engineering Peer Review of Winthrop Beach Shore Protection Design
 - June, 2016
 - Present update on Winthrop Beach shore protection
 - Present, and gather public input on, proposed 100% design plans for Winthrop Shore Drive/upland improvements
 - September, 2016
 - Present update on Winthrop Beach shore protection
 - Present final design and construction plans for Winthrop Shore Drive/upland improvements
6. Public comments



MASSACHUSETTS DEPARTMENT OF
CONSERVATION AND RECREATION

May 2016 – Cobble Berm Re-grading





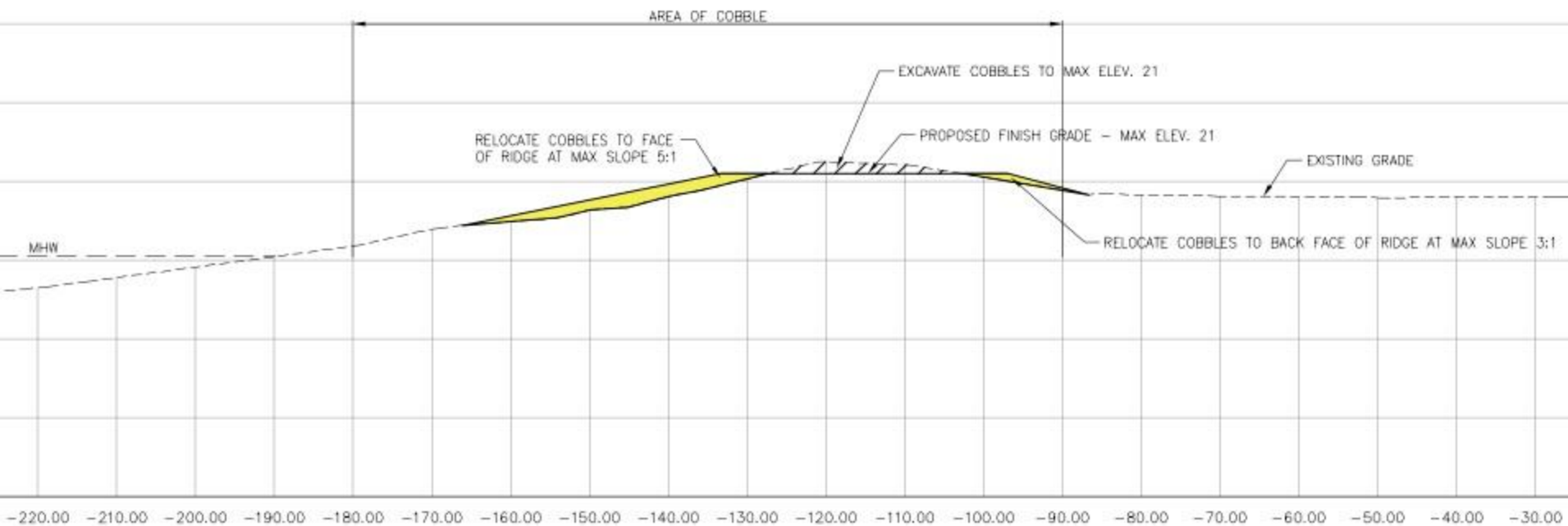
Goal of Cobble Berm Re-grading

Improve pedestrian access without:

- Compromising shore protection
- Impacting existing sandy areas.

Re-Grading Plan

- Reduce height of the berm
- Flatten steep slopes
- Keep the cobble within its existing footprint
- Complete the work by Memorial Day.





March 2016: Sand reforming below cobble



Tracking the Beach's Performance

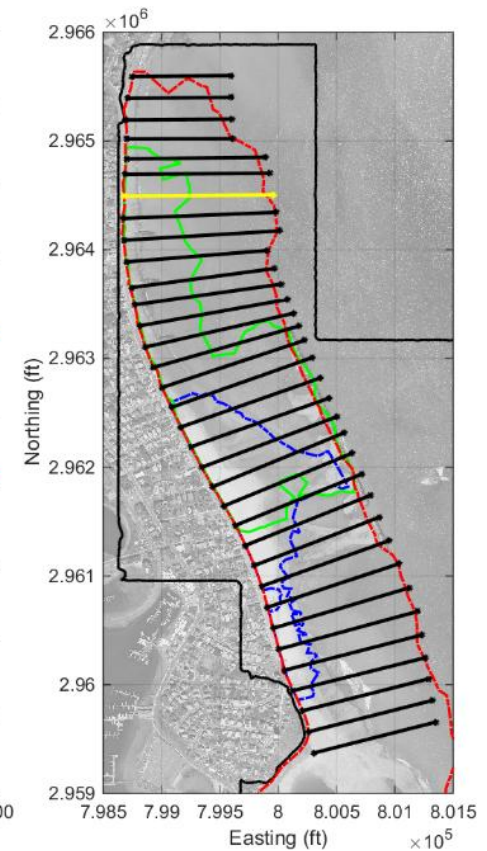
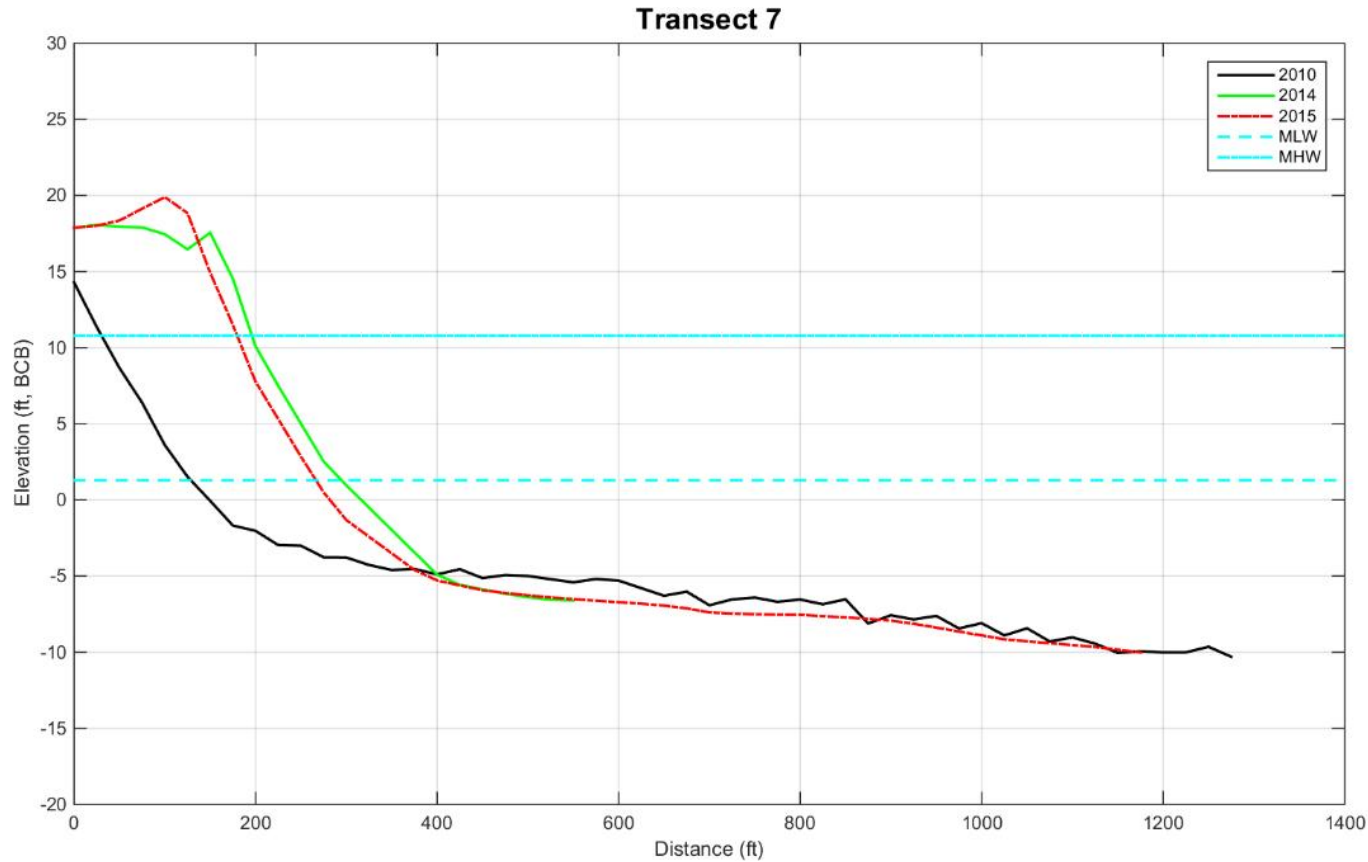
Permit Requirements:

- As-built surveys every quarter
- Annual report.

As-built surveys performed to date:

- August 2015
- November 2015
- March 2016.

Winter Storms and Wave Action Are Sorting the Fill and Reshaping the Beach Profile



Preliminary Monitoring Results

**Storms and Tides are
Redistributing Fine Particles**





Preliminary Erosion and Accretion Data

Annual Beach Volume Lost
from the North and South
Sections of the Beach
(Approx. 37,000 cubic yards)



Annual Volume Gained at
the Tombolo
(Approx. 37,000 cubic yards)

IN SUM:

Though re-nourishment material is being sorted and
relocated, little has been lost to the sea.



March 2016: Sand Accretion Behind the Five Sisters

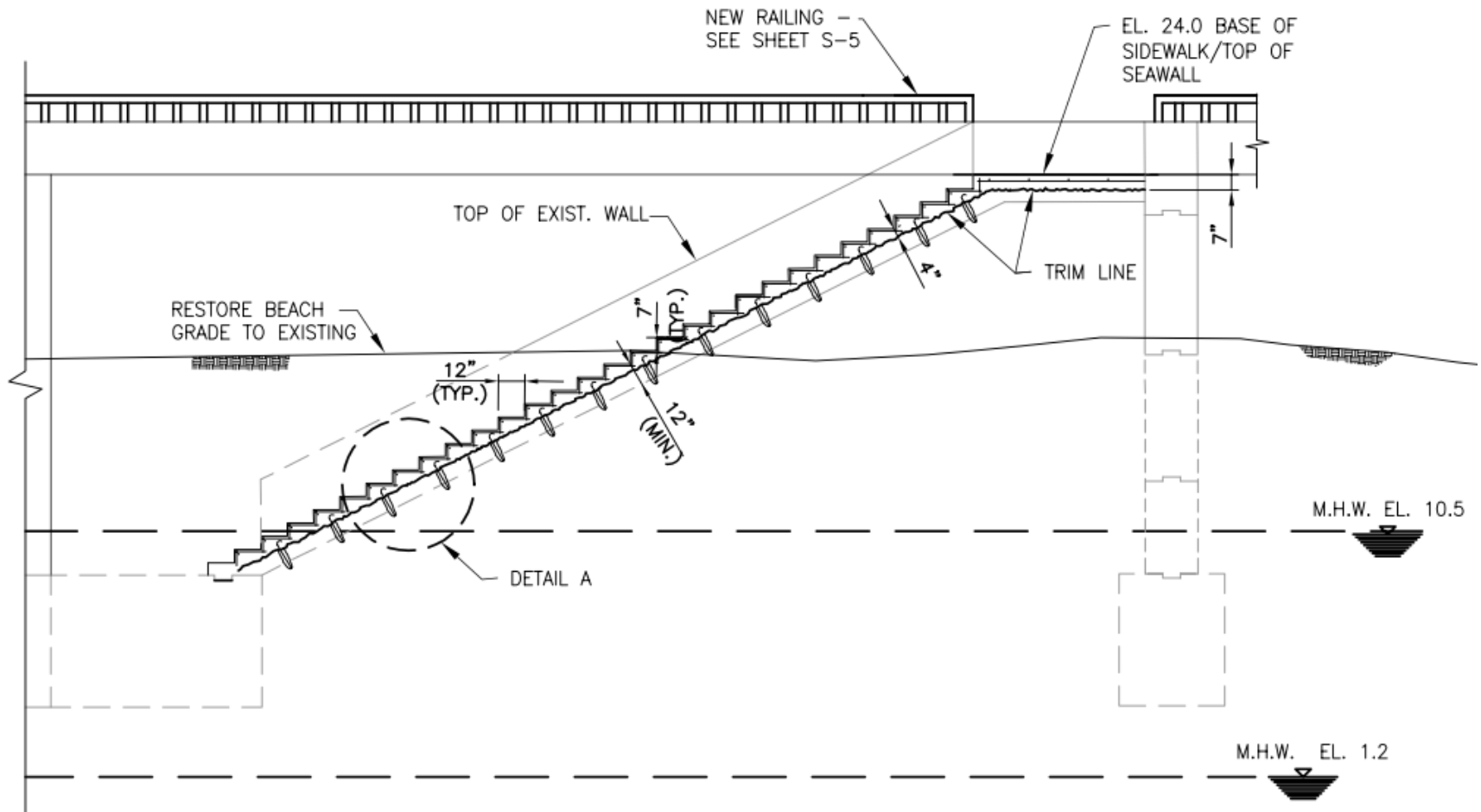
Spring 2016

Repairs to the Highlands Sea Wall Stairs



Spring 2016

Repairs to the Highlands Sea Wall Stairs



Engineering Peer Review

Purpose: To determine if the project was designed and built in accordance with sound coastal engineering practices

- DCR Selected Tetra Tech as Peer Review Consultant.

Scope of Work:

- Review Winthrop Beach coastal engineering work
 - Past studies and engineering reports
 - Environmental permits
 - Construction documents
 - Perform site inspection.
- Prepare and present report on independent review
 - Presentation May 31, 2016.



Engineering Peer Review – Partial List of Reports

Reports and Studies:

- Investigations of beach erosion problems at Revere, Winthrop, and Nantasket Beaches (1973)
- Plan for the Future of Boston Harbor Beaches (1993)
- MDC Winthrop Shores Reservation Restoration Report (1999)
- Winthrop Shores Reservation Program Conceptual Shore Protection Design (2000)
- Winthrop Shores Reservation Restoration Program Alternatives Analysis (2002).

Permits and Applications:

- Final Environmental Impact Report (2005)
- Notice of Project Change (2011)
- Winthrop Beach Order of Conditions
- US Army Corps of Engineers Permit (2012).

Construction Documents:

- Southern re-nourishment plans and specifications (2013)
- Northern re-nourishment plans and specifications (2013).

Future Public Meetings

May 31, 2016

- Present results of engineering Peer Review

June 2016

- Present update on Winthrop Beach shore protection
- Present, and obtain input on, proposed 100% design plans for Winthrop Shore Drive/upland improvements.

September 2016

- Present update on Winthrop Beach shore protection
- Present final design and construction plans for Winthrop Shore Drive/upland improvements.



Additional Information

For more information:

<http://www.mass.gov/eea/agencies/dcr/public-outreach/public-meetings/>
<http://www.mass.gov/eea/agencies/dcr/conservation/planning-and-resource-protection/projects/winthrop-beach-renourishment-project.html>

If you have comments or suggestions on this project:

Submit online:

<http://www.mass.gov/eea/agencies/dcr/public-outreach/submit-public-comments/>

Write: Department of Conservation and Recreation Office of Public Outreach
251 Causeway Street, Suite 600
Boston, MA 02114

Note: Public comments submitted to DCR may be posted on the DCR website in their entirety.

If you have questions or concerns or wish to subscribe to a DCR general information or project-related listserv: contact DCR's Office of Community Relations at 617-626-4973 or Mass.Parks@state.ma.us.

Public Comments